



# MATERIAL SAFETY DATA SHEET

## GARNA-CLEAR

### Section I-Contact Information

Manufacturer:

RoofMart International, Inc.

2735 Rain Road, P.O. Box 502

Chapman, KS 67431

Emergency Telephone: 800-451-8346 (3E Company)

Information Telephone: 800-345-1439

Date Prepared: June 1, 2005

### Section II-Hazardous Ingredients / Identity Information

Hazardous Components (Specific Chemical Identity, Common Name (s))	OSHA PEL	ACGIH TLV	Other	%
Solvent-Xylol	n/a	100	n/a	22

### Section III-Physical / Chemical Characteristics

Boiling Point	282°F to 286°F	Specific Gravity (H <sub>2</sub> O=1)	0.87
Vapor Pressure (mm Hg)	14	Melting Point	n/a
Vapor Density (AIR=1)	1	Evaporation Rate (Butyl Acetate=1)	0.8
V.O.C. lbs. / gal	1.86	Vapor Pressure (mm Hg at 25°C)	14
Solubility	Wt. % at F: 0.02 at 77 calculated. Soluble in most organic solvents.		
Appearance and Odor	Clear Liquid/Slightly Sweet		

### Section IV-Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
79°F	In air	1.9	12.3
Extinguishing Media	CO <sub>2</sub> , Foam, Dry Chemical		
Special Fire Fighting Procedures	Treat as flammable liquid.		
Unusual Fire and Explosion Hazards	None		

### Section V-Reactivity Data

Stability	Stable	<input checked="" type="checkbox"/>	Conditions to Avoid: Source of ignition or strong oxidizing agents. High humidity, moisture and temperatures above 375°F.
	Unstable	<input type="checkbox"/>	
Incompatibility (Materials to Avoid)	This product will react with any materials containing water.		
Hazardous Decomposition of Byproducts	Highly unlikely under normal industrial use.		
Hazardous Polymerization	May Occur	<input checked="" type="checkbox"/>	Conditions to Avoid: None
	Will Not Occur	<input type="checkbox"/>	

### Section VI-Health Hazard Data

Route(s) of Entry	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (acute & chronic)	Respiratory irritant	Moderate irritant	Gastrointestinal tract irritant
Carcinogenicity	NTP? No	IARC Monographs? No	OSHA Regulated? No
Signs & Symptoms of Exposure	Headache; Light-headedness.		
Medical Conditions Aggravated	None		
Emergency & First Aid Procedures	Move to well ventilated area. Call Physician.		



## Section VII-Toxicological Information

Toxicological Data	Oral: LD50 (rat)>5,000 mg/kg	Dermal: LD50 (rabbit)>5,000 mg/kg	Inhalation: LC50 (rat)=<1000 ppm (respirable aerosol)
--------------------	------------------------------	-----------------------------------	---

Potential Health Effects:

**Inhalation**-Repeated inhalation of vapor or aerosol at levels above the occupational exposure limit could cause respiratory sensitization.

**Skin Contact**-Repeated contact may cause skin sensitization.

**Eye Contact**-The aerosol, vapor or liquid will irritate human eyes following contact.

**Ingestion**-Considered non-toxic by ingestion.

**Chronic Effects**-A study where groups of rats were exposed for 6 hrs/day, 5 days/wk for a lifetime to atmospheres of respirable aerosol. Overall, the tumor incidence, both benign and malignant, and the number of animals with tumors were not different from controls. Only at the top level (6 mg/m<sup>3</sup>), there was a significant incidence of a benign tumor of the lung (adenoma) and one malignant tumor (adenocarcinoma). There were no lung tumors at 1 mg/m<sup>3</sup> and no effects at 0.2 mg.m<sup>3</sup>. The increased incidence of lung tumors is associated with prolonged respiratory irritation and the concurrent accumulation of yellow material in the lung, which occurred throughout the study. In the absence of prolonged exposure to high concentrations leading to chronic irritation and lung damage, it is highly unlikely that tumor formation will occur. There are no reports that chronic exposure may result in permanent decrease in lung function.

**Mutagenicity**-There is no evidence of mutagenic potential.

**Reproductive Effects**-No adverse reproductive effects are anticipated.

**Teratogenicity and Fetotoxicity**-No information is available and no adverse teratogenic/embryotoxic effects are anticipated.

## Section VIII-Precautions for Safe Handling and Use

Steps to be Taken incase of Release or Spill	Small spills-absorb with activated clay absorbents Large spills-dike up and pump into appropriate containers
Waste Disposal Method	Waste material may be incinerated under conditions which meet federal, state and Local environmental control regulations.
Precautions for Handling & Storage	Keep containers tightly closed in a cool, dry place.
Other Precautions	Store away from open flame

## Section IX-Control Measures

Respiratory Protection (specify type)	Enclosed breathing apparatus or organic filter mask
Ventilation	Use in well ventilated area, or in open air situation.

Other Protective Clothing or Equipment: As required for good industrial hygiene.

## Section X-Ecological Information

**Environmental Fate and Distribution**-It is unlikely that significant environmental exposure in the air or water will arise, based on consideration of the production and use of the substance. Also factoring the pot life once exposed to the environment.

**Persistence and Degradation**-Immiscible with water, but will react with water to produce inert and non-biodegradable solids.

**Toxicity**-Not regulated.

## Section XI-Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Disposal should be in accordance with local, state, provincial or national regulations. This material is not a hazardous waste under RCRA 40 CFR 261. Small quantities should be treated with a decontaminant solution. The treated waste is not a hazardous material under RCRA 40 CFR 261. Chemical waste in even small quantities should never be poured down drains, sewers or waterways. Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

## Section XII-Transportation Information

DOT Proper Shipping Name	Coating Solution
DOT Hazard Class	3, PG III
DOT ID Number	UN 1139
Label(s) Required	Flammable Liquid